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ARM Series Products

Pmaiafgn P l 1346 Os_b+Ampc Npmacqqmp
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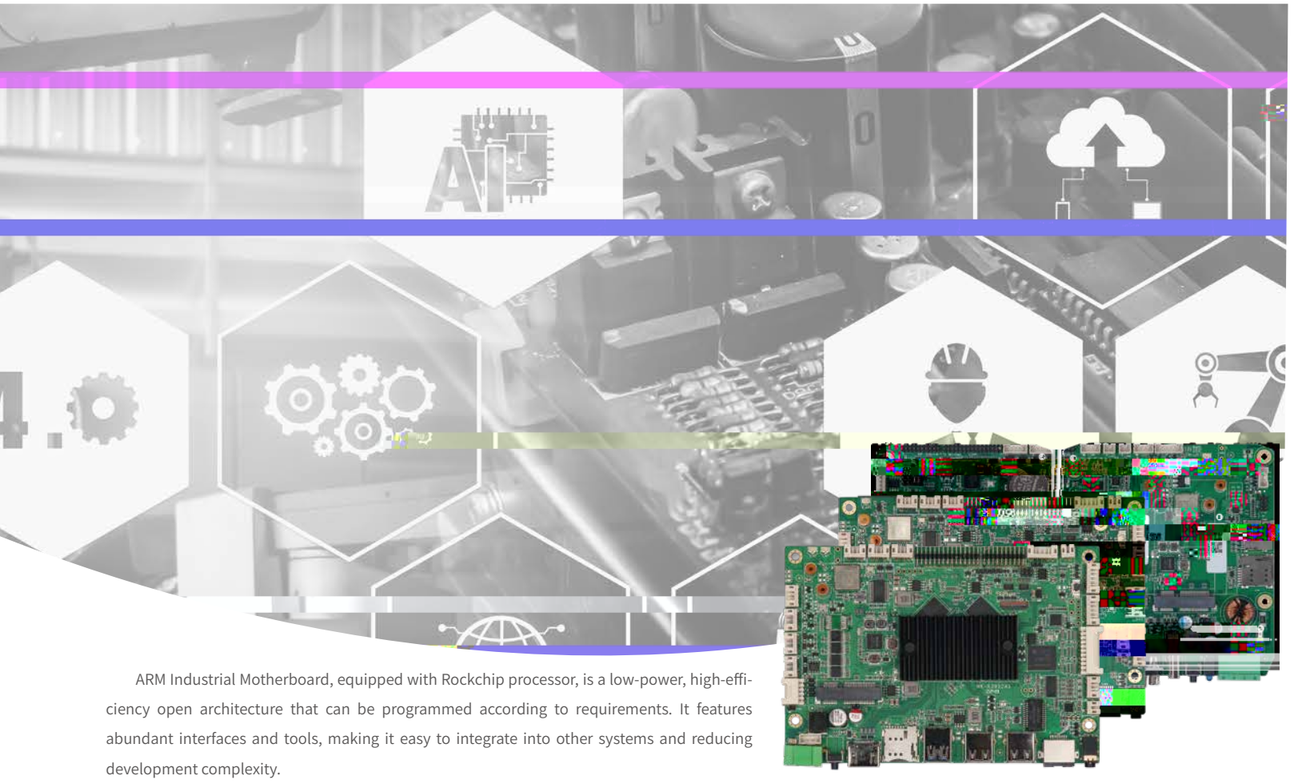
ARM Embedded Industrial Motherboard



ARM Industrial Motherboard, equipped with Rockchip processor, is a low-power, high-efficiency open architecture that can be programmed according to requirements. It features abundant interfaces and tools, making it easy to integrate into other systems and reducing development complexity.

Features

Rockchip High-Performance Processor

High-performance, low-power, feature-rich domestic application processor, suitable for industries such as intelligent cabinets, outdoor unmanned delivery vehicles, AGV service robots, industrial MES, facial payment devices, security, medical, and transportation systems.

Self-developed Industrial Motherboard

Abundant coastline interfaces, meeting the "cable-free" design of the whole system, stable and reliable.

Supports dual-system Android and Linux

Supports multiple 4G modules, supports 4G router functionality; background network heartbeat, automatic reset of 4G/5G for "always online" connectivity; supports features such as screen rotation, permanent hiding of the navigation bar; supports USB OTA upgrade, online upgrade.

Wide Voltage Power Supply: DC 12V～24V

Wide voltage input of DC 12V ～ 24V, equipped with over-current and reverse connection protection measures, and the interface adopts fastened phoenix terminals.

Rich I/O Interfaces

1000Mbps Ethernet, onboard 2.4/5G WiFi, supports BT5.0, COM, USB2.0, USB3.0 (OTG multiplexing), supports LTE 4G/5G modules (optional), supports speaker output, supports HDMI/EDP/LVDS.

Android

Linux

Model		NK-6A10
Processor System	CPU	Rockchip RK3399 ARM Dual Cortex-A72 and Quad Cortex-A53 1.8 GHz
	GPU	Mali-T860MP4 GPU,OpenGL ES 1.1/2.0/3.1,OpenCL 1.1, DirectX 11
Memory	Memory	Onboard 2/4GB LPDDR4
Storage	eMMC	Onboard 16/32/64GB eMMC
	TF Socket	1 x TF card Socket,Support 128G TF card
Rear I/O	Display	1 x HDMI 2.0, up to 3840x2160@60Hz
	Ethernet	1 x GbE (10/100/1000 Mbps) 1 x Onboard WIFI, Support 2.4G/5G WIFI, Support WiFi 802.11b/g/n protocol, Support BT5.0 (2.4G/5G option)
	USB	1 x USB3.0, OTG Colay,2 x USB2.0
	DC IN	12~24V power input, 2-pin lockable DC-IN phoenix terminal block
	Button	1 x Return Button
	PhoneJack	1 x Ø3.5 PhoneJack
Internal I/O	Display	1 x LVDS 1 x eDP,up to 1920×1080@60Hz 1 x Mipi-DSI,up to 1920x1080@60Hz
	DEBUG	1 x DEBUG for debug
	KEY	1 x KEY ,Supports power on,reset,recovery
	Serial Port	1 x RS485, 4*RS232, 1 x TTL
	USB	3 x USB2.0 pin header
	DC IN 1	1 x DC IN pin header ,12V~24V Power In put
	DC OUT	1 x DC 12V Power Out put
	TP/I²C	1xTP/I2C
	LED/IR	1xLED/IR
	GPIO&SPI	8 x GPIO, 2 x SPI
	AUDIO	1 x MIC in,and Speaker out via pin header
	GPS	GPS/BD module,Support GPS+ Beidou Function
Expansion Slots	Mini-PCIe slot	1 x MINI-PCIE with USB 3.0 signal for LTE/5G Modules, 1 x SIM card socket
Power	Type	12~24V power input
	Interface	1 x 2-pin phoenix terminal block
	Power Consumption	Boost 15W@12V
O.S Support	OS	Android11,Debian10
Mechanism	Dimensions	(L)146mm x (W)102mm
	Gross Weight	0.6Kg
Environment	Operating	-20°C~60°C
	Storage	-30°C~80°C
	Humidity	5~95% (Non-condensing)
	Vibration	5~500Hz, 3Grms operating

Model		NK-6A12
Processor System	CPU	Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
	GPU	Mali-G52 support OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0
	NPU	Up to 1.0 Tops.Supports INT8/INT16 hybrid operation
Memory	Memory	Onboard 2/4/8GB LPDDR4
Storage	eMMC	Onboard 16/32/64GB eMMC
	TF Socket	1 x TF card Socket,Support 128G TF card
Rear I/O	Display	1 x HDMI 2.0, upto 4096x2304@60Hz
	Ethernet	1 x GbE (10/100/1000 Mbps) 1 x Onboard AW-NM372 IC, Support 2.4G WiFi,support WiFi 802.11b/g/n protocol, Support BT5.0 (2.4G/5G option)
	DC IN	1 x USB3.0, OTG Colay,2 x USB2.0
	USB	12~24V power input, 2-pin lockable DC-IN phoenix terminal block
	Button	1 x Return Button
	PhoneJack	1 x Ø3.5 PhoneJack
Internal I/O	Display	1 x LVDS 1 x eDP,upto 2560x1600@60Hz 1 x Mipi-DSI,upto 1920x1080@60Hz
	DEBUG	1 x DEBUG for debug
	KEY	1 x KEY ,Supports power on,reset,recovery
	Serial Port	2 x RS485, 3*RS232, 1 x TTL
	USB	3 x USB2.0 pin header
	DC IN 1	1 x DC IN pin header ,12V~24V Power In put
	DC OUT	1 x DC 12V Power Out put
	TP/I²C	1xTP/I2C
	LED/IR	1xLED/IR
	GPIO&SPI	4 x GPIO，1 x SPI
	AUDIO	1 x MIC in,and Speaker out via pin header
	MIPI_CSI	1 x MIPI_CSI,Support MIPI dual-channel camera
Expansion Slots	Mini-PCIe	1 x MINI-PCIE with USB 3.0 signal for LTE/5G Modules，1 x SIM card socket
	M.2	1 x M.2 E Key with PCIE 3.0/PCIE 2.0/USB 2.0 signal for Wi-Fi 5/6 (option)
Power	Type	12~24V power input
	Interface	1 x 2-pin phoenix terminal block
	Power Consumption	Boost 13W
O.S Support	OS	Android11,Debian10
Mechanism	Dimensions	(L)146mm x (W)102mm
	Gross Weight	0.6Kg
Environment	Operating	-20°C~60°C
	Storage	-30°C~80°C
	Humidity	5~95% (Non-condensing)
	Vibration	5~500Hz，3Grms operating

Model		NK-2A10
Processor System	CPU	Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 1.8 GHz
	GPU	Mali-T860MP4 GPU, OpenGL ES 1.1/2.0/3.1, OpenCL 1.1, DirectX 11
Memory	Memory	Onboard 2/4GB LPDDR4
Storage	eMMC	Onboard 16/32/64GB eMMC
	TF Socket	1 x TF card Socket,Support 128G TF card
Rear I/O	Display	1 x HDMI 2.0, up to 3840x2160@60Hz
	Ethernet	1 x GbE (10/100/1000 Mbps) 1 x GbE (10/100/1000 Mbps),option 1 x Onboard AW-NM372 IC, Support 2.4G WiFi,support WiFi 802.11b/g/n protocol, Support BT5.0 (2.4G/5G option)
	DC IN	12~24V power input, 2-pin lockable DC-IN phoenix terminal block
	USB	1 x USB3.0, OTG Colay,3 x USB2.0
	Button	1 x Return Button
	COM	2 x COM ,COM 1/2 support RS232/485,COM1 default RS485
Internal I/O	Display	1 x LVDS 1 x eDP,up to 1920×1080@60Hz
	DEBUG	1 x DEBUG for debug
	KEY	1 x KEY ,Supports power on,reset,recovery
	Serial Port	2 x COM,COM3 Support RS232,COM4 support RS232/TTL
	USB	4 x USB2.0 pin header
	DC OUT	1 x DC 12V Power Out put
	TP/I²C	1xTP/I²C
	GPIO	12 x GPIO
	AUDIO	1 x MIC in,and Speaker out via pin header
Expansion Slots	Mini-PCIe slot	1 x MINI-PCIE with USB 3.0 signal for LTE/5G Modules，1 x SIM card socket
Power	Type	12~24V power input
	Interface	1 x 2-pin phoenix terminal block
	Power Consumption	Boost 15W@12V
O.S Support	OS	Android 7.1.2/Android 11,Debian 10
Mechanism	Dimensions	(L)198mm x (W)166mm
	Gross Weight	0.6Kg
Environment	Operating	-20°C~60°C
	Storage	-30°C~80°C
	Humidity	5~95% (Non-condensing)
	Vibration	5~500Hz，3Grms operating

ARM6000-CXXX-C6-3568-T Series

Rockchip RK3568 High-Performance ARM Industrial Tablet

Rockchip RK3568 Quad-Core 64-bit High-Performance Processor

It utilizes a Quad-Core 64-bit Cortex-A55 architecture with a high frequency of up to 2.0GHz. It is a high-performance, low-power, and feature-rich domestic application processor suitable for industries such as intelligent cabinets, outdoor unmanned delivery vehicles, AGV service robots, industrial MES, facial payment devices, security, medical, and transportation systems.

Aluminum-Magnesium Alloy Casing

Good heat dissipation and EMC performance, ensuring stable operation; front panel with IP65 dust and water resistance design; supports VESA and embedded hook installation (patent design).

Supports dual-system Android and Debian

Supports multiple 4G modules, supports 4G router functionality; background network heartbeat, automatically resets 4G/5G for "always online" connectivity; supports screen rotation, permanent hiding of the navigation bar, and other functions; supports OTA upgrade via USB and online upgrade.

Flexible Modular Design

The display touch and host adopt a modular design, allowing for compatibility between multiple specifications of hosts in the same series, facilitating on-site maintenance and upgrades.

Mali-G52 Graphics Processor

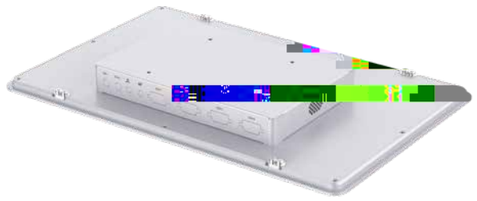
Supports OpenGL ES 3.2/2.0/1.1, Vulkan 1.1; VPU enables 4K 60fps H.265/H.264/VP9 video decoding and 1080P 60fps H.265/H.264 video encoding. It includes a wide range of display interfaces and camera interfaces, meeting the requirements of complex multimedia applications.

Abundant I/O Interfaces

1x 1000Mbps Ethernet, onboard 2.4G WiFi, support for BT5.0, 4x COM ports, 2x USB2.0 (expandable to 4 ports), 1x USB3.0 (OTG multiplexing), support for LTE 4G/5G module (optional), support for 2-channel speaker output.

Wide Voltage Power Supply: DC 12V~24V

Wide Voltage Input: DC 12V~24V, equipped with overcurrent and reverse connection protection measures, uses secure Phoenix terminals for the interfaces.



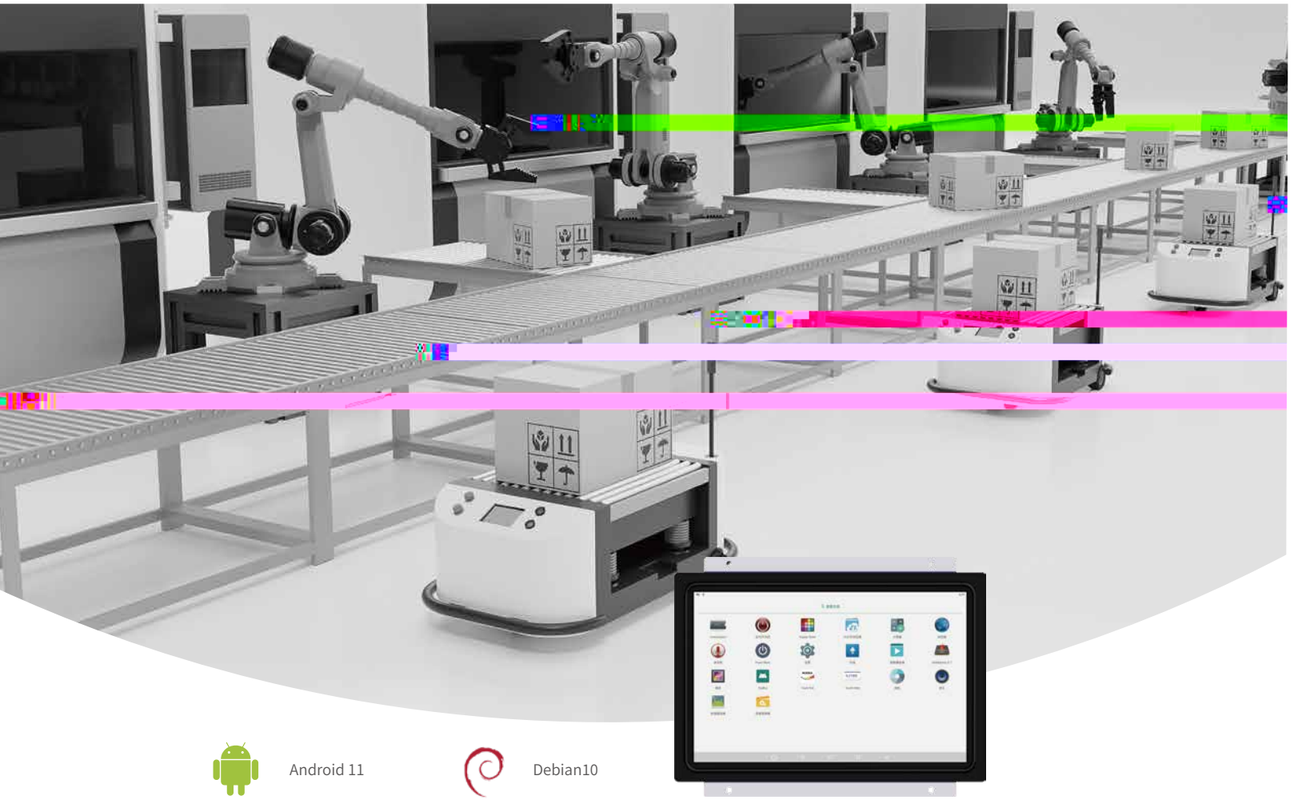
eatures

ARM6000-CXXX-C6-3568-T Series

Model		ARM6000-C101-C6-3568-TH	ARM6000-C125-C6-3568-TH
Processor	CPU		
	GPU		
	NPU		
Memory	Capacity		
Storage	eMMC		
	TF card expansion		
I/O	Ethernet		
	Audio		
	USB		
	MiniPCIE		
	Serial Port		
	Display		
	OTG		
Physical properties	Overall		
	Hole		
	Weight		
	Installation		
OS	OS		
Power	Input		
	Power consumption		
LCD screen	Screen type		
	Resolution		
	Max color		
	Display area		
	Backlight		
	BacklightMTBF (Hour)		
	Pixel pitch		
	Brightness		
	Contrast		
	Perspective		
Touchscreen	Touch screen type		
	Transmittance		
	Controller		
	Driver support		
	Multi-touch		
	Surface hardness		
Environmental	Operating temperature		
	Storage temperature		
	Relative humidity		
	Vibration		
	Shock		
	Water proof		

ARM6000-CXXX-C6-3568-TH-SC Series

Rockchip RK3568 High-Performance ARM Industrial Tablet



Android 11

Debian10

ARM6000-CXXX-C6-3568-TH-SC series uses Rockchip RK3568 4-core processor, Cortex-A55 up to 2.0GHz; it has super general computing capabilities. Gigabit Ethernet, supports 4G/5G (optional), WiFi network, 4-way serial port, 4-way USB2.0, rich interfaces; equipped with 10.1", 21.5" high-definition LCD screen, capacitive 10-point touch, accurate and sensitive. The front panel supports IP65 dustproof and waterproof design, embedded bracket installation, and optional fan for better heat dissipation. It can be used in various harsh environments indoors and outdoors, and operates stably without interruption. A large number of localization optimizations have been carried out for Android rows, which can meet the unattended and remote maintenance requirements of smart cabinets.

Features

Rockchip RK3568 Quad-Core 64-bit High-Performance Processor

It utilizes a Quad-Core 64-bit Cortex-A55 architecture with a high frequency of up to 2.0GHz. It is a high-performance, low-power, and feature-rich domestic application processor suitable for industries such as intelligent cabinets, outdoor unmanned delivery vehicles, AGV service robots, industrial MES, facial payment devices, security, medical, and transportation systems.

Mali-G52 Graphics Processor

Supports OpenGL ES 3.2/2.0/1.1, Vulkan 1.1; VPU enables 4K 60fps H.265/H.264/VP9 video decoding and 1080P 60fps H.265/H.264 video encoding. It includes a wide range of display interfaces and camera interfaces, meeting the requirements of complex multimedia applications.

Aluminum-Magnesium Alloy Casing

Good heat dissipation and EMC performance, ensuring stable operation; front panel with IP65 dust and water resistance design; supports VESA and embedded hook installation (patent design).

Abundant I/O Interfaces

1x 1000Mbps Ethernet, onboard 2.4G WiFi, support for BT5.0, 4x COM ports, 2x USB2.0 (expandable to 4 ports), 1x USB3.0 (OTG multiplexing), support for LTE 4G/5G module (optional), support for 2-channel speaker output.

Supports dual-system Android and Debian

Supports multiple 4G modules, supports 4G router functionality; background network heartbeat, automatically resets 4G/5G for "always online" connectivity; supports screen rotation, permanent hiding of the navigation bar, and other functions; supports OTA upgrade via USB and online upgrade.

High-Definition Capacitive Touch

10.1" - 1280×800 / 15" - 1024x768 / 12.5" / 15.6" / 21.5" - 1920×1080 HD display; 10-point high-sensitivity touch, smooth and responsive with no lag or blind spots, high stability.

Flexible Modular Design

The display touch and host adopt a modular design, allowing for compatibility between multiple specifications of hosts in the same series, facilitating on-site maintenance and upgrades.

Wide Voltage Power Supply: DC 12V~24V

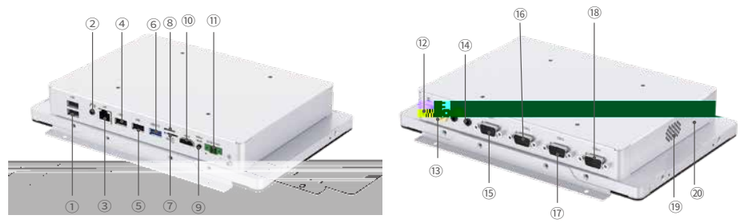
Wide Voltage Input: DC 12V~24V, equipped with overcurrent and reverse connection protection measures, uses secure Phoenix terminals for the interfaces.

Independently Developed Industrial Motherboard

Abundant coastline interfaces, meeting the "wireless cable" design of the entire system, ensuring stability and reliability.

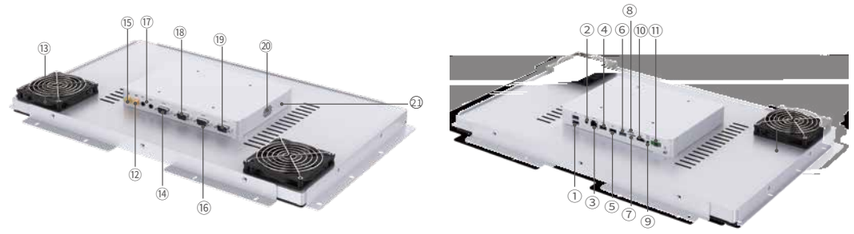
Embedded and VESA

Supports Panel Embedded or Various VESA Arm Mount Installations.



ARM6000-CXXX-C6-3568-TH-SC 10.1'' Interface Diagram

1：USB2.0	5：USB2.0	9：Return	13：4G(Optional)	17：COM3-RS232
2：Headphones	6：USB3.0/OTG	10：HDMI	14：SPK	18：COM4-RS485
3：LAN	7：SIM	11：DC IN	15：COM1-RS232	19：Speaker(Optional)
4：USB2.0	8：TF	12：WIFI	16：COM2-RS232	20：PWR button(Reserved)



ARM6000-CXXX-C6-3568-TH-SC 21.5'' Interface Diagram

1：USB2.0	5：USB2.0	9：Return	13：Fan	17：SPK	21：PWR button(Reserved)
2：耳机	6：USB3.0/OTG	10：HDMI	14：COM1-RS232	18：COM2-RS232	
3：LAN	7：SIM	11：DC IN	15：WIFI	19：COM4-RS485	
4：USB2.0	8：TF	12：4G(Optional)	16：COM3-RS232	20：Speaker(Optional)	

Model		ARM6000-C101-C6-3568-TH-SC
Processor	CPU	Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
	GPU	Mali-G52 support OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0
	NPU	Up to 1.0 Tops
Memory	Capacity	Onboard 2/4/8GB LPDDR4
Storage	eMMC	Onboard 16/32/64GB eMMC
	TF card expansion	1*TF card interface, max support 128GB
I/O	Ethernet	1*10/100/1000Mbps rate self-detecting Ethernet onboard 2.4G WiFi, supports Wi-Fi 802.11b/g/n protocol, supports Bluetooth，Bluetooth 5.0
	Audio	2*Ø3.5Power amplifier interface (8Ω 10W) 1*Built-in speaker (reserved) 1* Ø3.5 Headphone plug (FL/FR+MIC IN)
	USB	2*USB2.0，1*USB3.0
	MiniPCIE	Support LTE 4G
	Serial Port	3*RS232 , 1*RS485
	Display	1*HDMI，Support 4K 60Hz display
	OTG	1* USB3.0 (USB-A)
Physical properties	Dimensions	10.1''
	Overall	256.32mm x 158.88mm x 40mm
	Hole	218.0mm x 137.0mm
	Weight	1.17kg
	Installation	VESA、Embedded
OS	OS	Android 11、Debian10
Power	Input	DC 12V~24V
	Power consumption	15Watt
LCD screen	Screen type	10.1'' TFT-LCD
	Resolution	1280 x 800
	Max color	16.7MB
	Display area	216.96mm x 135.60mm
	Backlight	LED
	BacklightMTBF (Hour)	25000hrs
	Pixel pitch	0.1695 ×0.1695
	Brightness	350cd/㎡
	Contrast	800:1
	Perspective	(L)85/(R)85/(T)85/(B)85
Touch screen	Touch screen type	Multi-point capacitive touch screen
	Transmittance	＞86%
	Controller	USB I/O
	Driver support	Android
	Multi-touch	10 point
	Surface hardness	7H
Environmental	Operating temperature	-20 ~ 60°C
	Storage temperature	-30 ~ 80°C
	Relative humidity	0~95% (No condensation)
	Vibration	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half sine wave, duration 11ms
	Water proof	IP65

Model		ARM6000-C215-C6-3568-TH-SC
Processor	CPU	Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
	GPU	Mali-G52 support OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0
	NPU	Up to 1.0 Tops
Memory	Capacity	Onboard 2/4/8GB LPDDR4
Storage	eMMC	Onboard 16/32/64GB eMMC
	TF card expansion	1*TFcard interface, max support 128GB
I/O	Ethernet	1*10/100/1000Mbps rate self-detecting Ethernet onboard 2.4G WiFi, supports Wi-Fi 802.11b/g/n protocol, supports Bluetooth，Bluetooth 5.0
	Audio	2*Ø3.5Power amplifier interface (8Ω 10W) 1*Built-in speaker (reserved) 1* Ø3.5 Headphone plug (FL/FR+MIC IN)
	USB	2*USB2.0，1*USB3.0
	MiniPCIE	Support LTE 4G
	Serial Port	3*RS232,1*RS485
	Display	1*HDMI,Support 4K 60Hz display
	OTG	1* USB3.0(USB-A)
Physical properties	Dimensions	21. 5''
	Overall	526.60 mm x 318.10mm x 50.90mm
	Hole	480mm x 271mm
	Weight	5.88kg
	Installation	VESA、Embedded
OS	OS	Android 11、Debian10
Power	Input	DC 12V~24V
	Power consumption	30Watt
LCD screen	Screen type	21.5'' TFT-LCD
	Resolution	1920 x1080
	Max color	16.7MB
	Display area	476.64mm x 268.11mm
	Backlight	LED
	BacklightMTBF (Hour)	30000hrs
	Pixel pitch	0.24825 ×0.24825
	Brightness	350 cd/㎡
	Contrast	1000:1
	Perspective	(L)89/(R)89/(T)89/(B)89
Touch screen	Touch screen type	Multi-point capacitive touch screen
	Transmittance	＞86%
	Controller	USB I/O
	Driver support	Android
	Multi-touch	10 point
	Surface hardness	7H
Environmental	Operating temperature	-20 ~ 60°C
	Storage temperature	-30 ~ 80°C
	Relative humidity	0~95% (No condensation)
	Vibration	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half sine wave, duration 11ms
	Water proof	IP65

ARM6000-BXXX-I5-3399-T Series

Pmaiafgn PI High-Performance ARM Industrial Tablet

Rockchip RK3399Quad-Core 64-bit High-Performance Processor

Sqgle _ bs_j qcptcp+ep_bc ampc Amprcv+?) os_b+ampc Amprc+? j_pec _lb qk_jj ampc _pafgrcarspc ugrf _dpcosclawmd snrm , EFx* rfc lcu ampc a_l npmtgbc snrm # ncpdmpk_lac gknpmtckclr amkn_pcb rm rfc npctgmsq ampc bcqgel,

Rich system customization functions

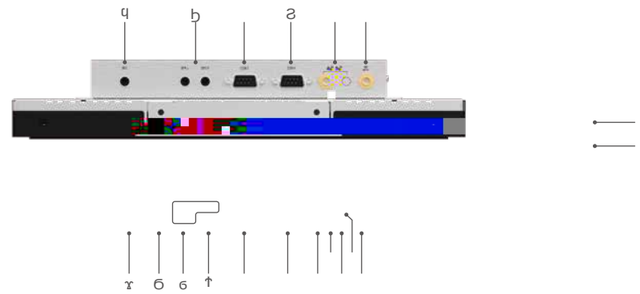
Qsnnmprq_t_pgcrwmd E kmbsjcq* qsnnmprq pmsr+ gle9 `_aiepmslb lcrumpi fc_pr`c_rdslargml* _srmk_rga_jjw pcqcrq E- E* ncpk_lclrjw mljglc *qsnnmprq pckmrc) mljglc snep_bc* qsnnmprq pckmrc jme snjm_b*_lb qsnnmprq gldp_+ pcb qapccl pku_pcmljglc) pckmrc snep_bc,

Abundant I/O Interfaces

Ó K`nq Crfcplcr &mnrgml_jbs_j Ege_`gr'* ml`m_pb , E UgD6 qsnnmprq @R , * ÓAMK* ÓSQ@ , * ÓSQ@ , &MRE ksjrgnjcvgle'* qsnnmprq JRC E- E kmbc Epmsn &mnrgml_j'* qsnnmprq qnc_icp msrnsrq,

Strong ability to adapt to the environment

GN u_rcpnpmmd bcqgel ml rfc dpmlrn_lcj9 jmle gldp_pcb rmsaf jgdc _lb qrpmle _lrg+glrcpdcpclac _`gjgrw9 emmb fc_rbgqqgn_rgml bcqgel* slglrcppsnr+ cb mncp_rgml9 _jj+qrccj dp_kc bcqgel* jgefr _lb bsp_`jc,



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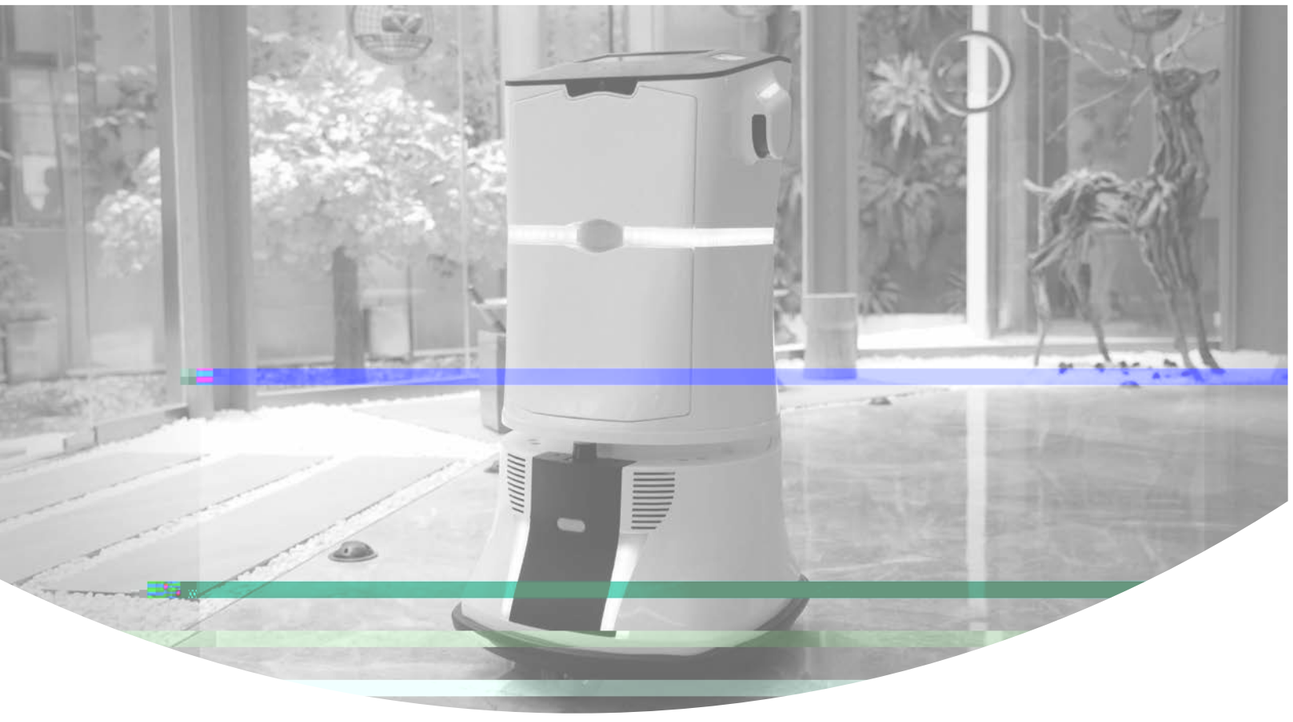
Processor	CPU	Pmaiafgn P I +ampc npmacqqmp* Ó? &sn rm , EFx') Ó? &sn rm , EFx'
	GPU	K_jg+R KN ENS* MnclEJ CQ , - , - , - , - , *Tsji_l , *MnclAJ , *BV
Memory	Capacity	Onboard JNBBP E@- E
Storage	eMMC	Onboard cKKA E- E
	TF card expansion	ÓRD card interface, max support 128GB
I/O	Ethernet	1×10/100/1000Mbps rate self-detecting Ethernet Onboard 2.4G WiFi，supports Wi-Fi 802.11b/g/n protocol, supports Bluetooth，Bluetooth 5.0
	Audio	ÓÔ , Power amplifier interface & Ŗ U ' ÓKɠAɠL
	USB	ÓSQ@ , ÓSQ@ ,
	MiniPCIE	Support LTE 4G JRC- E Kmbsjc &mnrgm l _j'
	Serial Port	ÓPQ &B@ ' mwPSQ@ |mwPSQ@ AMK - qprsnPQ - AMK bɑ̈_sjrPQ AMK bɑ̈_sjrPQ AMK qprsnRRJ bɑ̈_sjrPQ
	Display	ÓFBKɠ Support I Fx display Support FBAN , - ,
	OTG	ÓSQ@ , SQ@+?
Physical properties	Dimensions	
	Overall	, k k Ó , k k Ó , k k
	Hole	k k Ó k k
	Weight	, ie
	Installation	Ck `cbbcb
OS	OS	?lbpmgb , , ·s `slrs ,
Power	Input	BA T| T
	Power consumption	U_rr
LCD screen	Screen type	VE? RDR
	Resolution	Ó
	Max color	, K@
	Display area	, k k Ó , k k & , Ó , '
	Backlight	JCB
	BacklightMTBF (Hour)	fpq
	Pixel pitch	, Ó ,
	Brightness	ab- k®
	Contrast	ß
	Perspective	&J' -&P' -&R' -&@'
Touchscreen	Touch screen type	ɠldp_pcb rmsaf qapccl
	Touch points	point
	Physical resolution	Ó
	Touch accuracy	: , k k&Aclrp_jpceɡml : , k k &Cbec _pc_
	Touch diameter	< k k
	Controller	SQ@ɠ-M
	Transmittance	< # & ?E Ej_qq
	Driver support	Jɡl sv ·?l bpmgb
	Response time	: kq
	Touch activation force	Lm lccb dmp npcqqspc
	Surface hardness	F
	Touch life	Pcqgqr_lr rm qap_rafcq_lb a_l ugrfqr_lb k mpc rf_l kgjjgml rmsafcq
Environmental	Operating temperature	+ | ¬A
	Storage temperature	+ | ¬A
	Relative humidity	| # &No condensation'
	Vibration	QQB _nnjgcbß , Epkq ɠCA + + p_lbmk | Fx fp-_vgq
	Shock	QQB _nnjgcbß E ɠCA + + Half sine wave, duration 11ms
	Water proof	ɠN

Kmbcj		?PK +@ +ɠ + +R
Processor	CPU	Pmaiafgn P I +ampc npmacqqmp Ó? &sn rm , EFx') Ó? &sn rm , EFx'
	GPU	K_jg+R KN ENS* MnclEJ CQ , - , - , - , - , *Tsji_l , *MnclAJ , *BV
Memory	Capacity	Onboard JNBBP E@- E
Storage	eMMC	Onboard cKKA E- E
	TF card expansion	Ócard interface, max support 128GB
I/O	Ethernet	Ó - - K `nq rate self-detecting Ethernet Onboard , E UgDg supports Ug+Dg , `-e-l protocol, supports Bluetooth @jscrmmrf ,
	Audio	ÓÔ , NfmlcH_aiPower amplifier interface & Ŗ U ' ÓKɠAɠL
	USB	ÓSQ@ , ÓSQ@ ,
	MiniPCIE	Support LTE 4G JRC- E Kmbsjc &mnrgm l _j'
	Serial Port	ÓPQ &B@ ' mwPSQ@ |mwPSQ@ AMK - qprsnPQ - AMK bɑ̈_sjrPQ AMK bɑ̈_sjrPQ AMK qprsnRRJ bɑ̈_sjrPQ
	Display	ÓFBKɠ Support I Fx display Support FBAN , - ,
	OTG	ÓSQ@ , SQ@+?
Physical properties	Dimensions	,
	Overall	, k k Ó , k k Ó , k k
	Hole	k k Ó k k
	Weight	, ie
	Installation	Ck `cbbcb
OS	OS	?lbpmgb , , ·s `slrs ,
Power	Input	BA T| T
	Power consumption	U_rr
LCD screen	Screen type	, Dsjj FB RDR
	Resolution	Ó
	Max color	, K@
	Display area	, k k Ó , k k & , Ó , '
	Backlight	JCB
	BacklightMTBF (Hour)	fpq
	Pixel pitch	, Ó ,
	Brightness	ab- k®
	Contrast	ß
	Perspective	&J' -&P' -&R' -&@'
Touchscreen	Touch screen type	ɠldp_pcb rmsaf qapccl
	Touch points	nmglr
	Physical resolution	Ó
	Touch accuracy	: , k k&Aclrp_jpceɡml : , k k &Cbec _pc_
	Touch diameter	< k k
	Controller	SQ@ɠ-M
	Transmittance	< # & ?E Ej_qq
	Driver support	Jɡl sv ·?l bpmgb
	Response time	: kq
	Touch activation force	Lm lccb dmp npcqqspc
	Surface hardness	F
	Touch life	Pcqgqr_lr rm qap_rafcq_lb a_l ugrfqr_lb k mpc rf_l kgjjgml rmsafcq
Environmental	Operating temperature	+ | ¬A
	Storage temperature	+ | ¬A
	Relative humidity	| # &No condensation'
	Vibration	QQB _nnjgcbß , Epkq ɠCA + + p_lbmk | Fx fp-_vgq
	Shock	QQB _nnjgcbß E ɠCA + + Half sine wave, duration 11ms
	Water proof	ɠN

ARM6000-CXXX-C5-3399-T Series

Pmaiafgn P I High-Performance ARM Industrial Tablet



/ ¦ MƠЂŮ ¦ Ǒ

Rockchip RK3399 6-core 64-bit high-performance processor

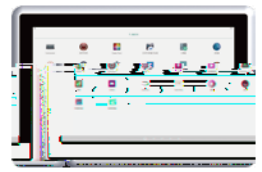
Sqgle _ bs_j qcptcp+ep_bc ampc Amprcv+?) os_b+ampc Amprc+? j_pec _lb q k _jj ampc _pafgrca+ rspc ugrf _dpcosc law md sn rm , EFx* rfc lcu ampc a_l npmtgbc sn rm # ncpdmp k _lac g k npmtc k c l r am k n_pcb rm r fc npctgmsq ampc bcqgel,

Aluminum magnesium alloy shell

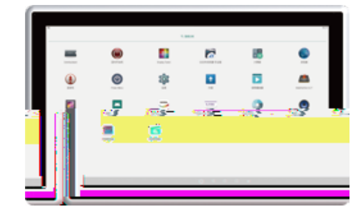
Emmb fc_r bgqqgn_rgml _lb CKA ncpdmp k _lac* qr_`jc mncp_rgml9 GN bsqrnpmmd _lb u

mmd q mms r ŋ k rqqgs l c r нrg_ K jr l b _ gΩ ¦ gq q˜ md ط_l s gf rgml9_˜ _ я





Kmbcj		?PK +A +A + +RF	?PK +A +A + +RF
		Rockchip RK3399 6-core processor，2×A72 (up to 1.8GHz) + 4×A53 (up to 1.4GHz)	
		Mali-T860MP4 GPU, OpenGL ES1.1/2.0/3.0/3.1/3.2, Vulkan 1.0, OpenCL 1.2, DX11	
		Onboard LPDDR4 2GB/4G	
		Onboard eMMC 16G/32G	
		1×TF card interface, max support 128GB	
		1×10/100/1000Mbps rate self-detecting Ethernet，1×10/100/1000Mbps rate self-detecting Ethernet (optional) onboard 2.4G WiFi, supports Wi-Fi 802.11b/g/n protocol, supports Bluetooth，Bluetooth 5.0	
		2×Ø3.5 PhoneJack Power amplifier interface (8Ω 6W) , 1×MIC IN (optional)	
		3×USB2.0，1×USB3.0	
		Support LTE 4G LTE/5G Module (optional)	
		4×RS232(DB9)，ttyXRUSB1~ttyXRUSB4，COM1/2 setup RS232/485，COM1 default RS485，COM2 default RS232，COM4 setup TTL，default RS232	
		1*HDMI，Support 4K 60Hz display，Suppor HDCP 1.4/2.2	
		1×USB3.0 (USB-A)	
		Bracket installation	
		Android 7.1.2、ubuntu 18.04	

Kmbcj		?PK +A +A + +R	?PK +A +A + +R
	1		

ABX-SLA1-W6XX Series

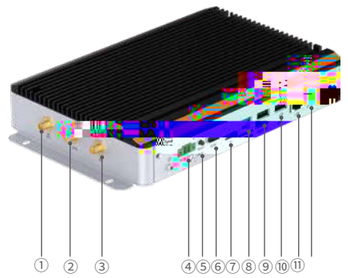
Rockchip RK3568/RK3399 AI High performance host

Abundant I/O Interfaces

Ó K`nq Crfcplcr&mnrgml_jbs_jEge_`gr'* ml`m_pb , E UgDG qsnnmprq@R , * ÓAMK* ÓSQ@ , * ÓSQ@ , &MRE ksjrgnjcvgle'* qsnnmprq JRC E- E kmbc Epmsn&mnrgml_j'* qsnnmprq qnc_icpmsrnsrq,

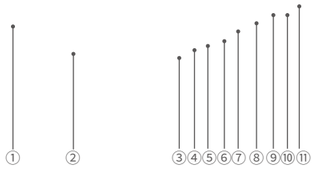
Good heat dissipation design

It uses aluminum profiles for rapid heat conduction and stable operation; it supports bracket and guide rail installation.



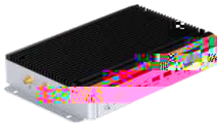
ABX-SLA1-W6XX uses Rockchip high-performance processor to meet the needs of AI intelligence, smart applications, and computing power. Gigabit Ethernet, supports 4G/5G, WiFi network, 4-way serial ports (3 RS232, 1 RS485), 3-way USB, rich interfaces; supports bracket and rail installation; can be widely used in industrial gateways and face recognition equipment , thin client (cloud service), VOIP video conferencing system, IoT Internet of Things field, VR recording, VR and other industries.

Android7.1.2/Android11



ABX-SLA12-W6XX Series Interface Diagram

1：WiFi	5：HDMI
2：4G/5G (Optional)	6：UP SIM,DOWN TF
3：DC IN	7：USB3.0/OTG
4：Return	8：USB2.0
9：USB2.0	13：COM4-RS485
10：LAN	14：COM3-RS232
11：Headphones	15：COM2-RS232
12：SPK (L/R)	16：COM1-RS232



Model		ABX-SLA10-W610
Processor System	CPU	Rockchip RK3399 ARM Dual Cortex-A72 and Quad Cortex-A53 1.8 GHz
	GPU	Mali-T860MP4 GPU,OpenGL ES 1.1/2.0/3.1,OpenCL 1.1, DirectX 11
Memory	Memory	Onboard 2/4GB LPDDR4
Storage	Emmc	Onboard 16/32GB eMMC
	TF Socket	1xTF,MAX 128GB
I/O Interface	Ethernet	1x10/100/1000Mbps 2.4G/5G WiFi , Wi-Fi 802.11b/g/n , Bluetooth 5.0
	GPS	GPS/BD module,Support GPS+ Beidou Function
	AUDIO	2xØ3.5 SPK 1x Ø3.5 PhoneJack
	USB	2xUSB2.0, 1xUSB3.0
	Expansion Slots	1 x MINI-PCIE with USB 3.0 signal for LTE Modules, 1 x SIM card socket
	COM	3xRS232 , COM1-3,1xRS485 , COM4
	Display	1 x HDMI 2.0, upto 4096x2304@60fps
	OTG	1xUSB3.0 (USB-A)
Mechanical	Dimensions	215mm x 147mm x 37mm (W x H x D)
	Construction	Aluminum housing
	Mounting	Wall Mount/DIN-Rail
	Weight	0.9kg
OS	OS	Android 11、Debian10
Power	DC IN	DC 12V~24V
	Power Consumption	Boost 13W
Environment	Temperature	Operating：-20 ~ 60°C (-4°F~140°F) Storage：-30 ~ 80°C (-22~ 176°F)
	Relative Humidity	5~95% (Non-condensing)
	Vibration during Operation	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock during Operation	SSD applied: 10 G, IEC 60068-2-64, Half-sine Wave, Sustained11ms

Model		ABX-SLA12-W600/601
Processor System	CPU	Rockchip RK3568 ARM Quad Cortex-A55 up to 2.0GHz
	GPU	Mali-G52 support OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0
	NPU	Up to 1.0 Tops.Supports INT8/INT16 hybrid operation
Memory	Memory	Onboard 2/4GB LPDDR4
Storage	Emmc	Onboard 16/32GB eMMC
	TF Socket	1xTF,MAX 128GB
I/O Interface	Ethernet	1x10/100/1000Mbps 2.4G WiFi , Wi-Fi 802.11b/g/n , Bluetooth 5.0
	AUDIO	2xØ3.5 SPK 1x Ø3.5 PhoneJack
	USB	2xUSB2.0, 1xUSB3.0
	Expansion Slots	1 x MINI-PCIE with USB 3.0 signal for LTE/5G Modules, 1 x SIM card socket 1 x M.2 E Key with PCIE 3.0/PCIE 2.0/USB 2.0 signal for Wi-Fi 5/6
	COM	3xRS232 , COM1-3 1xRS485 , COM4
	Display	1 x HDMI 2.0, upto 4096x2304@60fps
	OTG	1xUSB3.0 (USB-A)
Mechanical	Dimensions	215mm x 147mm x 37mm (W x H x D)
	Construction	Aluminum housing
	Mounting	Wall Mount/DIN-Rail
	Weight	0.9kg
OS	OS	Android 11、Debian10
Power	DC IN	DC 12V~24V
	Power Consumption	Boost 13W
Environment	Temperature	Operating：-20 ~ 60°C (-4°F~140°F) Storage：-30 ~ 80°C (-22~ 176°F)
	Relative Humidity	5~95% (Non-condensing)
	Vibration during Operation	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock during Operation	SSD applied: 10 G, IEC 60068-2-64, Half-sine Wave, Sustained11ms

eBOX-390X-3399 Series

Pmaiafgn PI ?G High performance host

eBOX-390X-3399 uses Rockchip RK3399 6-core high-performance processor to meet the needs of AI intelligence, smart applications, and computing power. Dual Gigabit Ethernet, supports 4G/5G, WiFi network, 4-way serial port, 4-way USB, rich interfaces; supports bracket and rail installation; can be widely used in industrial gateways, face recognition equipment, thin clients (cloud services) , VOIP video conferencing system, IoT Internet of Things field, VR recording, VR and other industrie

?I bpmgb 5,/,0 S`slrs/6,.2

Features

Rockchip 64-bit high-performance processor

Sqgle _ bs_j qcptcp+ep_bc ampc Amprcv+?) os_b+ampc Amprc+? j_pec _lbqk_jj ampc _pafgrcarspc ugrf _dpcosclaw md sn rm , EFx* rfc lcu ampc a_l npmtgbc sn rm # ncpdmpk_lac gk npmtckclr amk n_pcb rm rfc npctgmsq ampc bcqgel,

Independently Developed Industrial Motherboard

Abundant coastline interfaces, meeting the "wireless cable" design of the entire system, ensuring stability and reliability.

Wide voltage power supply: DC 12V～24V

BA T| T ugbc tmjr_ecglnsr* ugrf mtcpasppclr _lb pctcpqc amllcargml npmrcargml kc_qspcq*_lb rfcglrcpd_ac _bmnrqd_qrclgle Nfmclgv rcpkgl_jq,

Good heat dissipation design

?jskglsk npm jcq _pc sqcb dmpp_ngb fc_ramlbsa+ rgml _lb qr_`jc mncp_rgml9 qsnnmpr `p_aicr _lb esgbcp_gjglqr_jj_rgml

Mali-T860 MP4 quad-core graphics processor

Qsnnmprq MnclEJ CQ , - , - , - , - , * Tsji_l , * MnclAJ , * BV * ?D@A &dp_kc `s cp amk npcqqgml'* nmucpdsj ENS ncpdmpk_lac*_lba_l `c sqcb dmpamk nsr+ cp tgqgml* k_afglcjc_plgle* l* B pclbcpgle _lb mrfcp _nnjga_rgmlq

Abundant I/O Interfaces

1x 1000Mbps Ethernet, onboard 2.4G WiFi, support for BT5.0, 4x COM ports, 2x USB2.0 (expandable to 4 ports), 1x USB3.0 (OTG multiplexing), support for LTE 4G/5G module (optional), support for 2-channel speaker output.

Support Android and Debian dual systems

Supports a variety of 4G modules, supports 4G routing function; background network heartbeat,
Can automatically reset 4G/5G, "permanently online"; supports screen rotation and navigation

Wide temperature operation: -20°C～60°C

High-quality wide-temperature parts are selected inside the product, and the whole machine can achieve an operating temperature range from -20°C to 60°C, meeting the needs of most industries and use areas.

c@MV+ V+ Interface Diagram

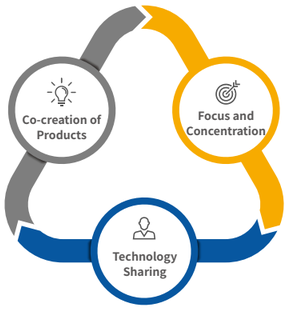
/ AMK1	3 RD	7 NUP JCB	/1 AMK0	/5 J?L 0
0 QNI&P-J'	4 Q&K	/. Pcrspl	/2 SQ@1,.-MRE	
1 2E-3E(Optional)	5 BA&L	// FBK&	/3 SQ@0,.	
2 UgDg	6 QWQ JCB	/0 AMK/	/4 J?L /	

Kmbcj		c@MV+ +	c@MV+ + + C	c@MV+ + +CE
Processor	ANS	Pmaiafgn PI 6-core processor Ó? &snrm , EFx')	Ó? &snrm , EFx'	
	ENS	K_jg+R KN ENS*MnclEJCQ , - , - , - , - , *Tsji_l , *MnclAJ , *BV		
Memory	Kckmpw	onboard JNBBP E@- E		
Storage	cKKA	onboard cKKA E- E		
	RDQmaicr	1×TF card interface, max support 128GB		
I/O Interface	Crfcplcr	Ó - - K`nq Ethernet	Ó - - K`nq Ethernet	Ó - - K`nq Ethernet
		onboard 2.4G WiFi, supports Wi-Fi 802.11b/g/n protocol, supports Bluetooth，Bluetooth 5.0		
	?SB&M	ÓÔ , NfmlcH_ai Power amplifier interface& Ṛ U'		
	SQ@	ÓSQ@ , ÓSQ@ ,		
	KglgNA&C	Support LTE 4G LTE/5G Module (optional)		
	Qcpg_jnmpr	ÓPQ &B@ ' rrwVPSQ@ | rrwVPSQ@ AMK - qcr PQ - AMK bcd_sjr PQ AMK bcd_sjr PQ		
	Bgqnj_w	ÓHDMI，Support 4K 60Hz display，Suppor HDCP 1.4/2.2		
	MRE	ÓSQ@ , SQ@+?		
Mechanical	Bgkclqgmlq	kkÓ kkÓ , kk		
	K_rcpg_j	?jskglsk `mvnjsq_jskglsk npm jc		
	Ucgefr	, ie		
	&lqr_jj_rgml	Ck`cbbcb`p_aicrglqr_jj_rgml	Ck`cbbcb`p_aicrglqr_jj_rgml	P_gjglqr_jj_rgml
OS	MQ	?lbpmgb , , ~s`slrs ,		
Power	BA&L	BA T| T		
	Nmucp Amlqsknrgml	U_rr		
Environment	Mncp_rglerckncp_rspc	+ | ¬A&+ _ | _ '		
	Qrmp_ecrckncp_rspc	+ | ¬A&+ _ | _ '		
	Pcj_rgtc Fskgbgrw	| # &Non-condensing'		
	Tg`p_rgml	QQB _nnjgcb8 , Epkq &CA + + p_lbmk | Fx fp-_vgq		
	Qfmai	QQB _nnjgcb8 E &CA + + Half-sine Wave, Sustained11ms		

Nodka R&D Center

Kunshan
X86 Motherboard and ODM

- V -?PK Bm k cqrga Kmr f cp`m_pb P$B
- MBK Npmbsar Bctcjmn k c l r
- Iccngle sn ugr f V -?PK Rcaf lmjmega_j Pm_b k _nq _ l b Rpc l bq



Suzhou
System and Application Development

- Am k njcrc Qwqrc k * @m_pb+jctcj* _ l b ©M ?nnjga_rgm l Bctcjmn k c l r
- Dmasq m l Qwqrc k +jctcj ?nnjga_rgm l Bctcjmn k c l r
- ?aas k sj_rc Pgaf © l bsqrpw _ l b Dgcjb Cvncpgc l ac

Shenzhen
Software Research and Development Center

- ?l bpmgb-Jgl sv ?nnjga_rgm l Bctcjmn k c l r

Nodka R&D Strength

ID

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